

Horowitz at Convocation

'New Appreciation of the Importance of Universities in Society'

Following is the Report made by President Horowitz to Convocation on Saturday, 16 November, when more than 1,400 students were awarded degrees. Helen Huston and Robert Stolley were the recipients of honorary Doctor of Laws degrees. Eminent Chancellor, Mr. Chairman of our Board of Governors, Honored Guests, Colleagues, Members of the Graduating Classes, Your

Families, and Friends of the University.

Today's convocation is the sixth one in 1985. Those of you graduating today, together with others who graduated last Spring, represent a total of more than 6,000, the largest number in our 77 years. And it seems, Mr. Chancellor, that the large numbers will continue because at 28,500 we have our

highest enrolment: 24,216 full-time students and 4,284 individuals studying for degrees on a part-time basis. And we must add the approximately 8,000 registrations in our Spring and Summer Sessions and the almost 30,000 registrations in non-credit courses, seminars, symposia and workshops in our Faculty of Extension.

This has been a different and a

very interesting Fall for me in that I have been involved not only in the usual activities at our University and in Alberta, but, as one of the co-chairmen of National Universities Week, I have had a national responsibility that has taken me across this country about a half dozen times during the last few months. Have these trips accomplished anything more than my accumulation of thousands of kilometers of credit on both the Air Canada and Canadian Pacific travel bonus schemes? I hope so. I report to Convocation today as much in relation to my national roles on National Universities Week, on the Research and Development Task Force of the Corporate-Higher Education Forum, and on the Board of the Association of Universities and Colleges of Canada as I do as President of the University.

From 19 to 27 October, together with the other universities in this country, we celebrated the second National Universities Week. Numerous activities were scheduled here during October, including, Mr. Chancellor, the public debate sponsored by our University Senate and our Alumni Association. The theme of that special week in October was "Extending ideas into your community". We attempted to highlight the contributions of our universities and, of even greater importance, the potential of service in the future.

We face major problems in spite of the strong support we enjoy in the larger community. One commission or task force after another has emphasized the need for strong support for our instructional and research programs; for general, lib-

Continued on page two

FOLIO

University of Alberta

21 November 1985

Video Display Terminal Policy Guidelines

The following provides a clarification of the University's approved guidelines on Video Display Terminals (VDTs).

The policy guidelines have been developed to address personnel management, design, and supervision issues concerning VDT operations. Some of the recommendations cover:

- selection of new equipment
- selection of workstation furnishings
- training for supervisors and VDT users

The objective is to ensure an awareness of how to minimize health concerns related to VDT use. The policy guidelines are included in the Manual of Administrative Policies, Procedures and Services.

The tests carried out by private and government organizations show that radiation levels, if any, are low and do not constitute a health hazard. The policy guidelines state that tests carried out by the National Institute of Occupational Health and Safety (NIOSH), the Federal Drug Agency (FDA), the Canada Health and Welfare Radiation Protection Branch demonstrate that little or no radiation from VDTs occurs.

VDTs on campus may be checked

upon request to ensure that radiation levels, if any, meet recommended safety standards.

With respect to the use of lead aprons, users of VDTs should be aware that current medical opinion holds that pregnant women who operate VDTs put their unborn child at greater risk by wearing lead aprons, because of the weight of these aprons.

Other recommendations for the supervisor and VDT user to minimize associated health concerns of VDT operations are:

- vision testing
- VDTs should normally be positioned to be parallel to windows
- chairs should be adjustable for back support and seat height
- VDT users shall not be required to work continuously at their terminal for longer than 60 minutes without opportunity to leave the terminal workstation (5-minute break).

These guidelines apply to all VDTs in use on campus. The three major categories of users are:

- 1) word processors (Microm, Display Writer, M.B.I., Decmate)
- 2) microcomputers (IBM-PC, IBM-PC/AT, McIntosh)
- 3) computer terminals (IBM 3278,

IBM 3270, IBM 3178, AJ terminals, Courier terminals, including color graphics)

The VDT policy guidelines recommend training for all University staff who use VDTs. This training is available through the Occupational Health and Safety Department. An Occupational Health Nurse provides information on health concerns associated with VDT use and teaches skills which the VDT user can apply to relieve stress.

Details on training sessions continue to be circulated via the Personnel Services and Staff Relations Training Bulletin. Two 90-minute sessions on Monday, Wednesday and Friday are under way in 365 Central Academic Building (CAB). They will continue until 20 December. During January, sessions will be offered at Lister Hall. These sessions are designed for all staff working with VDTs, including the three major category users of computers found on campus. Health related concerns such as vision, posture, stress management, radiation and pregnancy will be addressed. □

Contents

- Pharmaceutical manufacturing course compatible with Eastern firms
- Job Evaluation Study
- 'Letters'
- Academic Schedule 1986-87



eral education as well as for specialized professional programs; for basic research as well as for clinical, developmental and applied research; and for joint ventures with governments and with industry. The MacDonald Royal Commission Report and the Council of Ministers of Education Report of last month entitled "Changing Economic Circumstances: The Challenge for Post-Secondary Education and Manpower Training" are only the two most recent examples.

About two years ago the Corporate-Higher Education Forum was formed as a national organization for bringing together universities and the corporate community. Its membership includes about 25 of us who are presidents of the larger universities and an equal number of chief executive officers of Canadian companies. During the last year, under the chairmanship of Raymond Cyr, Chief Executive Officer of Bell Canada, I was one of seven members on the Forum's Task Force on Corporate-Higher Education Cooperation in Research and Development. In our recent report, *Spending Smarter*, we emphasize the benefits that can be derived for society generally from cooperation among universities, governments and the corporate sector. Clearly, there is new appre-

ciation of the importance of universities in society and of their contribution to the welfare of us all.

I believe this is so locally as well as nationally. Just this past Thursday, for example, we hosted on campus Mayor Muriel Abdurahman and about 15 representatives of firms and organizations from Fort Saskatchewan. Several times during the two hours I spent with our visitors we were complimented on the ways we are trying to extend ourselves into the larger community. Listen to the following items that appeared in a local newspaper last month under the headline, "Need for University Research Facilities":

"In order to compete and prosper in a highly technological and competitive world, Canada needs a superior research capability and a continuing supply of topflight manpower. This can only be achieved by assuring the quality of our university system."

"Universities are finding it difficult and, at times, impossible to meet demands made on them for research and development—because of space limitation, obsolete facilities and shortages of faculty and staff."

"We believe any short-term savings which might be gained by under-financing R and D at the

universities would be offset by the tragedy that would almost inevitably follow."

I suppose you think this is copy prepared by one of us at the University. Actually, it is a statement of the Edmonton Chamber of Commerce which appeared in the October issue of its newspaper. We appreciate this positive view of universities and I have communicated my pleasure to Mr. Bruce Campbell, President of the Edmonton Chamber, for that organization's support.

The major universities in this country are provincial institutions. Approximately 90 percent of this University's annual operating budget comes to us as a global grant from the Province of Alberta. The same is true for universities across the country. For about 40 years, however, federal governments have been contributing a significant share of the government support. What share? I hesitate to refer to the extent of federal participation because there are two different sets of calculations—provincial arithmetic and federal arithmetic. Not surprisingly, the federal formula indicates a somewhat larger federal contribution and the provincial formula does the same for the provincial share. Of course, as a university president I shall waffle as long as I can and I shall avoid being identified publicly with either approach. After all, as many of my colleagues and friends know, I get much of my inspiration and strength, especially on difficult days, from cartoons. And I've learned something about surviving in the presidency from the gift that Chancellor Emeritus Forest gave me a few years ago: a book of cartoons by Garry Trudeau, of Doonesbury fame, entitled *Presidents Are Smarter Than You Think*. But whatever the mathematical gymnastics performed by politicians, civil servants or academic scholars in their attempts to clarify the extent of involvement of the two levels of government, all would have to acknowledge that in 1985 federal participation is both real and significant.

Research Support

In addition to the support from the federal level which we receive as part of the provincial grant for the general operation of the universities, many scholars at this and at other universities receive research support from national granting councils. Last year, for example, colleagues here at the University of Alberta generated a total of more than \$58.6 million in research funding, a phenomenal doubling of the figure of just four years ago, by

the way. Of the \$58.6 million, \$21.7 million or 37 percent has come from the three national granting councils: the Natural Sciences and Engineering Research Council, the Medical Research Council, and the Humanities and Social Sciences Research Council. These funds support numerous research projects in a large variety of academic fields.

We know that within weeks the federal government will be making crucial decisions regarding research support. Each of the three Councils has developed five-year plans and we at universities join the members of the Councils in their claim that it is essential that the proposals be endorsed and funded by government.

A week ago the Honourable Dr. Tom Siddon, the Minister of State for Science and Technology (and a graduate in engineering from the University of Alberta) was visiting us on campus. He indicated strong support for the position of the Natural Sciences and Engineering Research Council. Last month the Honourable Monsieur Benoit Bouchard, the Secretary of State, addressed a conference which we sponsored on research funding in the humanities and social sciences. He, too, indicated endorsement for the position of the council for which he is responsible, the Social Sciences and Humanities Research Council. And I'm certain that if the Honourable Mr. Jake Epp, the Minister of National Health and Welfare, had been here he would have echoed the remarks of his two cabinet colleagues. If that is so, then why am I concerned? Am I being unnecessarily apprehensive? I hope so. But I am concerned and worried and frightened because I have heard noises, unwelcome noises, from other Ministers and from senior officials in Ottawa. I take seriously the advice of our friends in the federal cabinet who encourage us to discuss our needs publicly and who suggest that, without embarrassment, we conduct a lobby with the Prime Minister, with the Minister of Finance, and with other key players.

As have many university administrators across Canada I have written the Prime Minister and so has our Vice-President (Research). In a sense my report this afternoon is also an open letter to Mr. Mulroney. In our previous correspondence we argue that research funding should be considered not as a one-time expenditure on universities but as an investment, a long-term investment in the future of our country. Consider the following argument made a few years ago by a thoughtful Canadian: "The starting line for me is the technological dimension. Either we go into the game and become im-

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portant players in this major league or we become a nation that will, during its entire lifetime, play in the Junior B circuit. To play with the majors, we must make a firm commitment to double the public and private funds allocated to research and development before 1985. Research and development, and the resulting innovations, are the lifeblood of a successful economy and country."

Have you guessed the author of this strong testament. A university president? A research scholar? Well, it comes from *Where I Stand*, the personal and pre-prime ministerial statement of Brian Mulroney.

We need enhanced research support, but I caution that it must not be at the expense of the general instructional programs at universities. It is in this area that I am particularly concerned. Already this Fall, the federal Minister of Finance has indicated that the increases in transfer payments that the provinces have been anticipating in accordance with the 1976 federal-provincial agreement will be reduced by about \$2 billion during the next several years. I join the provincial treasurers who expressed anger following a recent federal-provincial meeting. Undoubtedly, the cash transfer program, which must be renegotiated during the next 18 months, will be a topic for the first ministers when they meet

later this month in Halifax. I am confident that Premier Getty will join other premiers in presenting a strong case for the provinces and for the universities and colleges.

There is no doubt in my mind that even in Alberta the universities and other institutions that depend heavily on provincial support will inevitably be affected by significant decreases in federal transfer payments to provinces. But even if relatively affluent Alberta can afford not to reduce its allocations to universities as a result of a decrease in the funds it receives from the federal level, it must be clear to everyone that universities in some of the other provinces definitely will be affected. After all, in Newfoundland the federal contribution intended for post-secondary education and hospital and health care (often referred to as EPF, Established Programs Financing) accounts for 35 percent of the total provincial revenue. And what happens to universities in Newfoundland, or in New Brunswick, or in British Columbia, or anywhere in our country, must be of concern to us here.

Is this statement of mine simply a self-serving one? Is it conventional rhetoric that university presidents utter at convocations? Not if we listen to our Prime Minister who wrote the following a couple of months ago:

"It is with great pleasure that I offer my support and endorsement to the National Universities Week as it is observed in communities across Canada.

"If the university as a dynamic and progressive institution is to remain viable in Canada, it will only be through the support and concern of the Canadian people. Universities have for so long been a part of the national fabric that it is possible to lose sight of their seminal role in the cultivation and advancement of social, aesthetic and scientific understanding; yet if Canada is to retain its forward-looking identity in the world community, it is essential that we ensure the vitality and stability of our post-secondary community."

Along with many others, Mr. Chancellor, I applaud this recent statement of the Prime Minister and I appeal to him, to his Minister of Finance, and to his other cabinet colleagues to maintain that position as they make, in the weeks and months ahead, the difficult and important decisions that will affect the extent to which universities can serve society and the extent to which we can contribute to the cultural, social and economic developments in our country and beyond. □

Pharmaceutical Manufacturing Course Well Regarded by Industry

Pharmaceutical manufacturing is one of the fields of study in Pharmacy which is offered as a course of instruction to selected senior undergraduate students. The course consists of both a lecture and laboratory component but because of its specialized nature enrolment is limited to only a few students each year. The laboratory is adequately equipped with various pilot scale items such as mixers, blenders, vats, and tablet presses to enable the manufacture of small to medium-sized batches of pharmaceutical products. Students working in small groups become engaged in manufacturing a product from beginning to end.

Recognizing that the pharmaceutical industry today is highly regulated by government, emphasis is placed on the requirements of pharmaceutical manufacturing practices and the steps which must be taken in order to produce a high quality product in multiple units.

The presence of pharmaceutical

industry is almost non-existent in Alberta (the only significant plant is the Banner Gelatin Company located at Olds) which is an obvious disadvantage in attempting to provide an all-round experience for students, particularly on matters of a very practical nature at the large scale production level. However, the Faculty's interactions with those pharmaceutical companies largely located in Ontario and Quebec in recent years has generated considerable mutual enthusiasm for training students to become better prepared to move into careers in the pharmaceutical industry. As a result, the industry has provided generous support to the program both by giving first-hand information in the lecture room and by donations of manufacturing equipment. One such donation has been a used Stokes B-2 tablet press (16 station) donated by the Merck-Frosst Company of Pointe Claire, Quebec. In addition, expert representatives from Merck-Frost, Searle,

Rorer, Parke Davis, Schering, Smith Kline & French, Sterling Drug, Glaxo, and Banner Gelatin Company have generously donated their time and travel expenses in offering lectures to students.

The Pharmaceutical Manufacturers Association of Canada (PMAC), to which most pharmaceutical companies operating in Canada belong, has played a major role in the planning and implementation of the Faculty's program of visiting lecturers. The experience has been very rewarding and has provided a new dimension of instruction to students in the university setting. This form of collaboration and interaction between the University of Alberta and the pharmaceutical industry will continue to be encouraged and promoted to the mutual benefit of both parties. □

J.A. Rogers, *Pharmacy and Pharmaceutical Sciences*, contributed this article to Folio.



Parking Services' Booster Service

Parking Services advises University parking permit holders and any other interested parties that booster services will be made available during inclement weather (temperature readings of -23C or colder). The service is only available to holders of valid annual, monthly or daily parking permits. To request boosting service, permit holders should telephone the Department of Physical Plant, Control Centre, 432-4855.

Power Recycling for Plug-ins

As an energy saving measure, power to electrical plug-ins is under an electrical cycling program which runs on a half-hour rotation basis. Power begins cycling when temperature readings reach -10C or colder. When the mercury dips to -29C, power will be on full-time in all zones. This cycling program is in effect Monday through Friday from 8:30 a.m. to 3:30 p.m.

Further information from Parking Services, 432-3811/2236.

Evening Parking on Campus

Parking is readily available on campus during evening hours, read 4:30 to 10 p.m. Monday through Friday. A parking permit is required and can be obtained from Parking Services at a rate of \$7 per calendar month. The permit is valid at all campus parking locations except zone "X" during the above hours.

For occasional visitors, casual parking is available at a rate of \$2 per evening in any of eight different locations. Casual parking is offered at a reduced rate of \$1 in Windsor Car Park and at Corbett Hall ("G" and "L" zones) during the evening.

International Student Affairs Office Study

The Council on Student Services' Standing Committee on Reports and Reviews is conducting a study on the International Student Affairs Office in Student Services and the International Student Centre.

The committee welcomes the comments and queries of international students and agencies on campus which are involved in providing services to international students.

The individuals to communicate with are Natalie Sharpe, 432-4145, or Jim Small, 432-3651. The mailing address is 300 Athabasca Hall.

NASA Meeting

The NASA General Meeting is scheduled for 27 November at 4:45 p.m. in TL-11 H.M. Tory Building. Negotiation matters will be discussed.

Non-Academic Classification System Under Review

A review of the University's non-academic classification system and pay administration is now under way. This phase of the Equal Employment Opportunity-Job Evaluation Study is an important part of providing "Equal Employment Opportunity Initiatives" at the University. A project team has been established consisting of several members of Personnel Services and Staff Relations with the assistance of the firm of Thorne Stevenson and Kellogg, management consultants.

Over the next several months,

each of the more than 400 non-academic job classifications will be carefully studied. Employees in each classification will be asked to complete a questionnaire detailing their jobs. This will be followed by an interview with each employee as the completed questionnaires are received. Current and comprehensive job descriptions will then be written for each job classification. Later, each job description will be evaluated by an Evaluation Committee using a point rating system. These job descriptions will serve as a standard against which all jobs on

campus will be compared and rated. In this way, each position will be assessed in a fair and consistent manner.

The Equal Employment Opportunity Initiatives - Job Evaluation Study's successful completion will require the full participation of departments, supervisory staff and

employees.

A series of information meetings is currently under way.

All enquiries should be directed to: Equal Employment Opportunity Initiatives (Compensation), 2-02 Assiniboia Hall. Telephone 432-8164. □

Mortimer Adler to lecture on 'Crisis in Philosophy'

Mortimer Adler, Director of the Institute for Philosophical Research in Chicago, will give a lecture at the University on "The Crisis in Philosophy."

Dr. Adler will speak Friday, 22 November, at 3 p.m. in L-1 Humanities Centre.

The lecture is sponsored by St. Joseph's College and the Department of Philosophy.

Dr. Adler is well-known for his work with the Great Books and with *The Encyclopaedia Britannica*.

The latest in a list of many and important books is Dr. Adler's *Ten Philosophical Mistakes*, the subtitle of which reads, "Basic Errors in Modern Thought—How They Came About, Their Consequences, and How to Avoid Them."

In the words of P.W. Platt, President of St. Joseph's College, "Dr. Adler's visit to the campus promises to be challenging; his reputation as a thinker and speaker is widely acknowledged." □

Neurological Sciences Expert to Lecture

The Julieanne Dorn Professor of Neurology at Harvard University and Chief of the Neurology Service, Massachusetts General Hospital, Joseph Martin, will deliver the 1985 Walter C. Mackenzie Lectureship.

Dr. Martin, whose visit is being hosted by the Department of Biochemistry, will present lectures on 25 and 26 November. His initial lecture will be on "Neuropeptides in Health and Disease;" on 26 November, he will discuss "Neuroendocrine Regulation of Growth Hormone Secretion." Both lectures will take place at 4 p.m. in Bernard Snell Hall, Mackenzie Health Sciences Centre.

A specialist in neurological sciences, Dr. Martin is particularly interested in neuroendocrinology and brain peptides. He has published about 150 original scientific papers as well as some 70 review articles. His stature in the scientific

community is reflected in the fact that he is a past or present member of 10 editorial boards, including those for *Neuroendocrinology*, *Annals of Neurology*, *New England Journal of Medicine* and the *American Journal of Medicine*. Dr. Martin serves the scientific community in a variety of ways as a member of a large number of committees, study sections and advisory boards of Canadian, U.S. and international scientific bodies.

A native of Bassano, Alberta, and an alumnus of our University, Dr. Martin has taught at McGill University, where he was Chairman of the Department of Neurology and Neurosurgery. In 1978, he was named the Bullard Professor of Neurology at Harvard Medical School and Chief of Neurology Service at the Massachusetts General Hospital. Dr. Martin became the Julieanne Dorn Professor of Neurology at Harvard in 1984. □

Letters

Immigration Blues Chased

I am a recently arrived student from Australia who encountered difficulties with the Department of Immigration shortly after my arrival. I wish to put on record the invaluable assistance I received from the International Student Centre and in particular the expert attention from Wilfred Allan, Director of International Student Affairs. An unfortunate initiation into Canada has been radically altered through his most effective work. Perhaps acknowledging this in *Folio* may encourage other foreign students to avail themselves of the expert care and attention offered to them through this excellent University of Alberta service.

Sister Janiece Moylan R.S.J.
Educational Administration

Research Canada 86

I have just watched a film in the International Film Festival on Research, which is part of the Research Canada 86 Series of Lectures and Colloquia. The series is a sort of Chautauqua of the 1980s, sponsored by the Federal Government, bringing to Edmonton and other Canadian cities films and leading scholars to expose and discuss Ideas That Could Change The World.

The title of the film was "The Business of America"; it was produced under the auspices of the Corporation for Public Broadcasting, by a California organization. It is a searing look at one aspect of the failure of the American Dream (economic version) and of simplistic 19th century Reaganomics as applied to the U.S. steel industry, and a glimpse of "new" ideas about economic organization and administration. I went as a happily lapsed economist and present adult educator interested in political and social education.

And I was one of an audience of a full 18 people—on a university campus of about 22,000 students and 1,600 academics! You had to look very hard to find us in the Bernard Snell Hall. At earlier films the attendance apparently never exceeded 25. I also understand that the originally-planned three-day program has been cut to two days because of low interest in Halifax, where the series started. At that rate, after Edmonton it may be reduced to one day, and by the time it arrives at Expo 86 in Vancouver it will, as my Irish uncle would say, have disappeared, somewhere in the Canadian wilderness.

Hayden Roberts
Faculty of Extension

Ed. Note. Research Canada 86 promotional materials flourished on campus well in advance of the screening of the films. The word was out but it apparently fell on deaf ears. At last report, travel arrangements to Winnipeg (25 to 27 November), Montreal (10 to 12 March), Toronto (15 to 17 April), Saskatoon (18 to 20 June) and Vancouver (22 to 24 September) had been confirmed. The source person for Research Canada 86 is Angèle Dostaler, (613) 995-1986.

Talks

Alberta Heritage Foundation for Medical Research

22 November, 2 p.m. John M. Belmont, University of Kansas Medical Centre, "Significance of Deaf Cognition." 2-135 Education North.

Music

22, 25, 27 and 29 November, 3 p.m. Continuing Seminar—Philip Brett, "Seminar in Editing Early Music." 2-15 Fine Arts Building.

24 November, 8 p.m. Philip Brett, "Music and Poetry in England from Byrd to Purcell." Also appearing will be the University of Alberta Madrigal Singers. Convocation Hall.

26 November, 9:30 a.m. Dr. Brett, "Britten's Peter Grimes." 2-34 Fine Arts Building.

Comparative Literature

22 November, 3 p.m. James Algoe, "The Literature of Portugal." Senate Chamber, Arts Building.

29 November, 3 p.m. Milan Dimić, "Serbo-Croatian Literature." Senate Chamber, Arts Building.

Economics and Mathematics

22 November, 3 p.m. Robert McKelvey, Montana, "Modelling Ground Water: Irreversible Investment, Common Property Exploitation, and Boom-and-Bust Irrigation Agriculture in the Arid West." 8-22 Tory Building.

History

22 November, 3:05 p.m. J. Retallack, "I Don't Think We're in Kansas Anymore: German Junkers React to the Universal Franchise, 1871-1918." 2-58 Tory Building.

29 November, 3:05 p.m. D. Johnson, "Lessons from Papa Pedro: Real Estate and Wealth in the Andes." 2-58 Tory Building.

Zoology

22 November, 3:30 p.m. Michael A. Bell, Department of Ecology and Evolution, State University, New York, "Punctuated Equilibria, Neo-Darwinian Theory and Fossil Sticklebacks." M-145 Biological Sciences Building.

29 November, 3:30 p.m. Brett Premack, "Membrane Ionic Currents and Excitability in Barnacle Neurons." M-145 Biological Sciences Building.

United Church Chaplaincy

24 November, 7:30 p.m. Floyd Steinhauer, "Native Ministry: Between Two Worlds." Garneau United Church.

Plant Science

25 November, 9 a.m. Aladar Szalay, Boyce Thompson Institute for Plant Research, Cornell University, on the general topic "Rhizobium - plant interactions." 4-10C Agriculture-Forestry Centre.

25 November, 1 p.m. Leonie Nadeau, "The Effect of Herbicides on Plant Rhizosphere." 1-06 Agriculture-Forestry Centre.

2 December, 1 p.m. Janice Zale, "Applications of Tissue Culture in Cereal Breeding." 1-06 Agriculture-Forestry Centre.

4 December, 1 p.m. N. Looney, Pomology and Viticulture Section, Agriculture Canada Research Station, Summerland, B.C., "On the Role of Gibberellins in the Reproductive Development of Tree Fruits." 1-06 Agriculture-Forestry Centre.

Slavic and East European Studies

25 November, 3 p.m. O. Ilnytskyj, "The Prose of Geo Shkurupii." 776 General Services Building.

English

25 November, 4 p.m. Ian MacLaren, "Shakespeare, Milton...and the Fur Trade." 5-20 Humanities Centre.

28 November, 3:30 p.m. Novelist Robertson Davies will read from his work. L-1 Humanities Centre.

2 December, 4 p.m. Christine Bold, "Cowboys in the White House: The Making of a Popular Rhetoric." L-3 Humanities Centre.

Walter C. Mackenzie Lectureship 1985

25 November, 4 p.m. Joseph B. Martin, MD, PhD, Julianne Dorn Professor of Neurology, Harvard University, and Chief, Neurology Service, Massachusetts General Hospital, "Neuropeptides in Health and Disease." Bernard Snell Hall, W.C. Mackenzie Health Sciences Centre.

26 November, 4 p.m. Dr. Martin, "Neuroendocrine Regulation of Growth Hormone Secretion." Both lectures are hosted by Biochemistry. Bernard Snell Hall, W.C. Mackenzie Health Sciences Centre.

Economics

25 November, 7:30 p.m. Carl Beigie, Director and Chief Economist, Dominion Securities Pitfield Ltd., and Mel Hurtig, President, Hurtig Publishers Ltd., "Bilateral Free Trade Arrangements with the United States: A Debate." TL-11 Tory Building.

Committee for the Improvement of Teaching and Learning

26 November, 2 p.m. Charles R. Shobe, Director, Formal Learning, ACCESS Network, "Communication Technologies for University Education." W-2 Tory Building.

27 November, 1 p.m. Terry Butler, "Computer Literacy." 349 CAB.

28 November, 8 a.m. Terry Butler, "Computer Literacy." 349 CAB.

4 December, 2 p.m. Bill Meilen, "Communication Tricks—Fast Ways to Improve Your Communication Ability." W-2 Tory Building.

Center for Advanced Study in Theoretical Psychology

27 November, 2 p.m. Herman Tennessen, "The revolution that fizzled out: Popper, Kuhn, & Feyerabend. (The rise and fall of a tub-thumping revivalist approach to philosophy of sciences: a belated attempt at a post-mortem.)" CW-410 Biological Sciences Building.

Catholic Campus Ministry

27 November, 7:30 p.m. Father Kevin Caspersen, csb, "Justice and Peace." 102 St. Joseph's College.

Library Science

28 November, 12:30 p.m. F. Barbara C. Douma, Instructor/Customer Services, Micromedia/Dialog, "Librarians and the Information Age." 3-22 Rutherford South.

Soil Science

28 November, 12:30 p.m. J.A. Robertson, "With a Glance Backward." 281 CAB.

Chemical Engineering

28 November, 3 p.m. Henry Meng, Alberta Research Council, "Sorption Equilibrium and Kinetics of Sequential Sorption in Zeolite Molecular Sieve." E-342 Chemical-Mineral Engineering Building.

Forest Science

28 November, 3:30 p.m. John Marlow, R.P.F., Woodlands Services, MacMillan Bloedel, Nanaimo, B.C., "Land Use Planning for Forest Harvesting, and Environmental Concerns." 2-3 Mechanical Engineering Building.

Entomology

28 November, 4 p.m. John Borden, Department of Biological Sciences, Simon Fraser University, "Semi-chemicals for the Mountain Pine Beetle." TBW1 Tory Breezeway.

Art and Design

28 November, 5 p.m. Christopher Fleming, sculptor and lecturer at Manchester Polytechnic, on recent British sculpture, including the work of Tony Cragg, Anish Kapoor, Michael Kenny, Bill Wodrow and himself. 2-20 Fine Arts Building.

Ghanian Students' Association

29 November, 5 p.m. The Hon. Neil Crawford, Attorney-General of Alberta, "Human Rights and the Canadian Charter of Rights." 1-09 Business Building. Refreshments served.

Canadian Authors Association

29 November, 6:30 p.m. A workshop followed by remarks by Brenda Bellingham and Cora Taylor, Edmonton authors of recently published children's books, "Fables, Facts and Fantasy." 10th Floor, Education Building.

Canadian Institute of Ukrainian Studies

29 November, 8 p.m. Myron Kuropas, author of *Ukrainians in America*, "War Crimes and Ukrainians: The American Experience." 2-115 Education North.

Club IDC

2 December, 3:30 p.m. Joe Pillay and Maureen Werlin, "Apartheid." 4-110C Education North.

3 December, 3:30 p.m. Margaret Tsushima, "The Refugee Problem." 4-110C Education North.

4 December, 3:30 p.m. Speakers from the Métis Association, the Indian Association, the provincial government; Michael Asch and Gurston Dacks, "Human Rights in the Canadian North." 4-110C Education North.

Films

Germanic Languages

27 November, 7:30 p.m. "Maria Magdalena." Arts 17.

The Arts

SUB Theatre

22 November, 8 p.m. Jan Pietrzak in concert. Tickets: \$10. 424-1094.

23 November, 8 p.m. Anna Wyman Dance Theatre. 432-4764.

29 November, 8 p.m. "Prizzi's Honor" (1985).

30 November, 8 p.m. "Year of the Dragon" (1985).

Music

22 November, 8 p.m. Academy Strings—Norman Nelson, conductor. Convocation Hall.

24 November, 8 p.m. The University of Alberta Stage Band—Neil Corlett, conductor. An evening of Canadian music in celebration of Canada Music Week. Buchanan Hall, Alberta College.

29 November, 8 p.m. University of Alberta Concert Choir, Madrigal Singers and Edmonton Youth Orchestra. Philip Brett and Leonard Ratzlaff, directors. All Saints' Cathedral. Tickets: Department of Music or door.

1 December, 8 p.m. St. Cecilia Orchestra—Malcolm Forsyth, conductor. Tickets: Department of Music or door. Convocation Hall.

Edmonton Film Society

25 November, 8 p.m. "Anatomy of a Murder" (1959).

2 December, 8 p.m. "Bachelor Flat" (1961).

Edmonton Chamber Music Society

4 December, 8 p.m. Paul O'Dette and Nigel Rogers. Single admissions available at the door for this concert only. SUB Theatre.

Broadcasts

Radio

Programs broadcast on CKUA radio 580 AM and 94.9 FM.

23 November, 7 p.m. "University Concert Hall."

30 November, 7 p.m. "University Concert Hall."

Programs broadcast on CJSR radio 88.5 FM.

24 November, 10:20 a.m. "Paper Tygers—Copyright Law—Part I."

1 December, 10:20 a.m. "Science Digest—Weather."

Sports

23 November, 2 p.m. Volleyball—Pandas vs. University of Saskatchewan.

23 November, 4 p.m. Volleyball—Bears vs. University of Saskatchewan.

23 November, 7:30 p.m. Basketball—Bears vs. Lakehead University.

29 and 30 November, 7:30 p.m. Hockey—Bears vs. University of Brandon.

1 December, noon. Gymnastics—Dual Meet. W-98 Physical Education and Recreation Centre.

3 December, 7:30 p.m. Basketball—Pandas vs. Taiwan.

Feeding Our Student Body

Food for the mind is offered in the labs and lecture halls of academia.

But the hungry student body needs nourishing too, and each week large quantities of goodies are consumed by the ravening hordes who eat in Lister Hall and CAB.

It may not surprise you that our University is the largest institutional user of Coca Cola in Alberta. But digest these quantities:

1,500 large loaves of bread (mixed white and brown) are eaten each week in Lister Hall.
1,000 pizzas, loaded with toppings, are devoured in The Ship in a week.

3,000 or more cinnamon buns are baked and sold weekly in CAB Cafeteria, which serves about 22,000 people in that time.

2,500 hamburgers and a small mountain (750 lbs.) of French fries are served every week by Jumbo in Subway, where half of the employees are students.

These figures were revealed to *Folio* by Lister Hall head chef Jerry Daley, whose own favorite lunch is fried chicken, french fries (don't forget the ketchup) and, of course, Coke. □

Award Opportunities

Killam Exchange Scholarships With France

Each year the University of Alberta recommends to the Government of France three graduating students for positions as "Assistants" in either secondary or post-secondary French educational institutions. The students participate in this cultural exchange for nine months (October to June). Proficiency in written and oral French is required and the maximum age of applicant is 30. The exchange is restricted to Canadian citizens.

Interested students should obtain applications from the Director of Student Awards by 1 December. Each applicant will be interviewed.



Muttart Diabetes Research and Training Centre

The Muttart Diabetes Research and Training Centre was formed in June 1981 at the University of Alberta, through an endowment by the Gladys and Merrill Muttart Foundation.

The objectives of the Centre are to provide core laboratory facilities for the Centre's investigators; to provide

start-up funding for pilot projects; to train investigators interested in diabetes-related research; and to encourage interaction between investigators of the various disciplines and health professionals involved in the care of diabetic patients.

In keeping with these objectives, the Centre is now accepting diabetes-related pilot project proposals. The funding for each project will be a maximum of \$7,500 and the deadline for submission is 6 December 1985.

Further details and application forms may be obtained by contacting: Mrs. Shirley Moore, Executive Secretary, 8-113F Clinical Sciences Building. Telephone 432-6855.

Positions

The University of Alberta is committed to the principle of equal opportunity in employment and encourages applications from all qualified people.

In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Academic

Chairman, Department of Organizational Analysis

Applications are invited for the position of Chairman of the Department of Organizational Analysis. Suggestions of possible candidates and assessments of the leadership needs of this department are also invited. Nominations or applications, accompanied in the latter case by a detailed résumé of qualifications and experience, should be submitted to Dr. Roger S. Smith, Dean, Faculty of Business, 4-40 Faculty of Business Building, by 29 November 1985.

Statistics and Applied Probability

The Department of Statistics and

Applied Probability invites applications for a limited term (8 to 12 months) position in any area of statistics or probability at the assistant professor level (salary: \$2,526.33 per month) effective 1 September 1986. The appointment will be made subject to funds being available. Closing date: 15 June 1986.

Interested individuals should send a vitae to: Dr. J.R. McGregor, Department of Statistics and Applied Probability, University of Alberta, Edmonton, Alberta, Canada T6G 2G1.

Director, Housing and Food Services

Housing and Food Services provides residence facilities to 3,200 students, food services to more than 15,000 customers daily and extensive conference services to the University community. Our student residence community has a staff complement of 350 and is operated on a break-even mandate with annual revenues and expenditures that exceed \$13.4 million.

We have a senior management opening for a Director who will foster a sense of community in our student residences, continually strive to upgrade the quality of residence life, and who will lead this department to financial success. The incumbent will provide direction and guidance in the implementation of financial controls, management of human resources, innovation and quality of food service, efficient property management and effective marketing of housing accommodations.

The ideal candidate will have an advanced level of education and extensive management experience, preferably in residence property and food service management. Areas of expertise should encompass human resources, marketing, customer service and finance administration. We are looking for a proactive and dedicated

professional with proven leadership skills and creative problem-solving techniques.

The salary range for this position is \$44,527 to \$66,799 per annum.

Qualified candidates are invited to submit a comprehensive résumé with salary expectations to: Mr. A.M. Rennie, Acting Vice-President (Administration), University of Alberta, 3-20 University Hall, Edmonton, Alberta T6G 2J9.

Chair of American Literature, University of Lausanne

The University of Lausanne invites applications for the Chair of American Literature tenable from 1 September 1986 or later.

Qualifications required: PhD or equivalent.

Applications, accompanied by a curriculum vitae and a list of publications, should reach the Dean of the Faculty of Letters, Université de Lausanne, Bâtiment central, CH - 1015 Lausanne, Switzerland, by 10 January 1986.

Further information may be obtained from the same address. Telephone: 46 31 25.

Non-Academic

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. These vacancies cannot be guaranteed beyond 15 November 1985.

Office Services File Clerk, Office of the Registrar, (\$1,190-\$1,478)
Laboratory Assistant II, Provincial Laboratory, (\$1,190-\$1,478)
Clerk Typist II (Term), Provincial Laboratory, (\$1,190-\$1,478)
Clerk Typist III, Personnel Services and Staff Relations, (\$1,326-\$1,666)
Clerk Steno III (Term), Dean of Education, (\$1,326-\$1,666)

Meet

Rudy Wiebe and Bob Beal

authors of

***War in the West:
Voices of the 1885 Rebellion***

McClelland & Stewart: \$34.95 cloth, \$19.95 paper

**2:00 to 4:00 p.m.
Saturday, November 23**

**Spectrum
Books**

**Second Floor
ManuLife Place
10180 - 101 Street
420-0153**

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**Canadian Universities
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Clerk Steno III, Health Services Administration and Community Medicine, (\$1,326-\$1,666)
 Senior Financial Records Clerk, Housing and Food Services, (\$1,326-\$1,666)
 Student Records Processing Clerk, Graduate Studies and Research, (\$1,478-\$1,888)
 Secretary, Extension—Dean's Office, (\$1,478-\$1,888)
 Medical Stenographer (Split-Funded), Medicine, (\$1,478-\$1,888)
 Administrative Clerk, Housing and Food Services, (\$1,478-\$1,888)
 Administrative Clerk, Faculty of Extension, (\$1,478-\$1,888)
 Administrative Clerk, Office of Research Research Services, (\$1,478-\$1,888)
 Administrative Clerk, Materials Management, (\$1,478-\$1,888)
 Food Service Assistant (Part-time), Housing and Food Services, (\$444-\$548)
 Technician II (Trust), Immunology, (\$1,739-\$2,237)
 Administrative Assistant I (Job Analyst), Personnel Services and Staff Relations, (\$1,888-\$2,437)

Administrative Assistant I (Employment Assistant) (Temporary), Personnel Services and Staff Relations, (\$1,888-\$2,437)
 Administrative Assistant I, Housing and Food Services, (\$1,888-\$2,437)
 Locksmith, Physical Plant—Maintenance, (\$2,053-\$2,661)
 Programmer/Analyst II, Computing Science, (\$2,237-\$2,905)

For vacant Library positions, please contact the Library Personnel Office, Basement, Cameron Library, 432-3339.

Advertisements

Accommodations available

Rent - Going overseas. Main floor of beautifully kept house. Two bedrooms, study. Furnished. Seven minutes University. Two direct bus

lines. 1 January-30 April 1986. References. 468-3302.

Rent - Eleven-room, furnished, luxury. Eight minutes University, river bank. Three bedrooms, bar, library, mini gym. January-May. \$1,900/month or would consider mature house-sitting. Referenced couple. No costs. 488-6969.

For rent - Spacious house with fireplace and appliances. Kenilworth area. Available mid-December or early January. Phone 469-8025.

Sale - Riverbend. Lowest price, Terwillegar Estates for this super 2,600 sq. ft., four-bedroom plus den. Jacuzzi, oak features, kitchen appliances, large lot. Liz Crookford, Spencer's, 436-5250, 434-0555 (res.).

Sale - Windsor Park, reduced! Custom-built bungalow with warm wood accents, woodburning fireplace, three baths. Fully developed basement. Large lot. Marjorie King, 435-0395, 436-5250. Spencer's.

Sale - New listing, Windsor Park. Quiet location and south backyard are features of this attractive home. Hardwood floors. Developed basement. Walk to the University. Call Marjorie King, 435-0395, 436-5250. Spencer's.

Sale - Grandview. Immaculate, elegant home. Spacious rooms. Two fireplaces. Double, attached garage. Large lot 76' wide. Super quiet location. For details, call Chris Tenove, 433-5664, 436-5250. Spencer's.

Sale - Windsor Park. Lot 73'x189'. Bungalow, hardwood floors. Quiet location. Chris Tenove, 433-5664, 436-5250. Spencer's.

Sale - Residential, city lots. One acre plus. \$49,000 up. Chris Tenove, 433-5664, 436-5250. Spencer's.

Sale - University, three adjacent homes. \$49,700 up. Chris Tenove, 433-5664, 436-5250. Spencer's.

Rent - Cabin on Pine Lake, east of Red Deer. Nice location for writing dissertation. Available immediately-30 April. \$375/month. Doug, 462-0101 evenings.

Goods for sale

New Royal typewriters \$115-\$730, some with computer interface and rent-to-own plan. Used electrical typewriters \$140. Mark 9, HUB Mall. 432-7936.

More personal than cards - Christmas letterheads/envelopes, 10 for \$5. Mark 9, HUB Mall.

Services

Donnic Word Processing. Specializing in theses, manuscripts, etc. 8315A 105 St. 432-1419.

Backaches? Stress tension? Special therapy at Back-Basics (supplementary health care reimburses treatment costs). Maria Krieg is a spine specialist, university-trained in Düsseldorf. 11610 75 Avenue. 436-8059.

Quaker worship, Sundays, 11 a.m. Soroptimist Room, YWCA. 100 Ave. 103 St.

Will do all kinds of renovations, small and large. Phone 434-9709 evenings. Word processing, photocopying, typing course, theses and résumés. Speed and quality. Mark 9, HUB Mall, 432-7936.

Professional typist - Word processing. Specializing in theses and dissertations. Gwen, 467-9064. Professional typing. We do "rush stuff." 461-1698.

Thai language classes for beginners. Trained instructor. 486-1126 evenings. Cash paid for old, rare, out-of-print and second-hand books in good condition. F. Speur-Books, 10824A 82 (Whyte) Ave. 439-4195.

SONY COMPUTER DISPLAY PRODUCTS

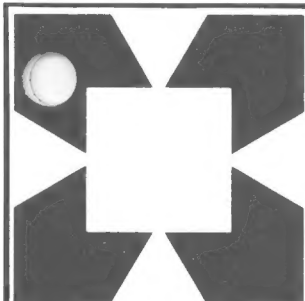
Western Cinevision will be displaying the latest in Sony Computer Display and Data/Video projectors.

Location: Dept. of Radio and Television
 Room CW-005, Biological Sciences Building

Date: December 4th, 1985 11:00 a.m. - 4:00 p.m.
 December 5th, 1985 9:00 a.m. - 3:00 p.m.

Models on display will include High Scan Data/Video projectors (60" - 200") and IBM compatible high resolution monitors (9" - 20")

Jerry Grossman 452-1707



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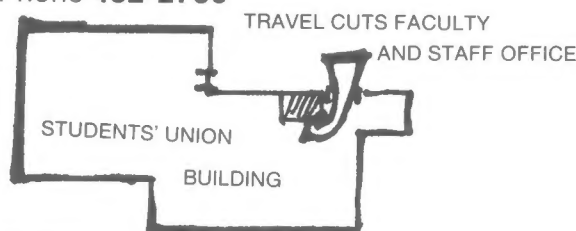
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- On campus mail system
- Campus Phone 432-2756



University of Alberta

1986-87 Academic Schedule

First Term (63 days instruction)

1986

July						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

August						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

September						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Labor Day, 1 September
Registration, 2, 3 September
Classes begin, 4 September

October						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Thanksgiving Day, 13 October
Mid-term Test Week,
20 to 24 October

November						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

Remembrance Day, 11 November
Fall Convocation,
22 November

December						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Classes end, 10 December
Exams 10 to 13, 15, 16 December
Christmas, Boxing Day &
"Floater", 24, 25, 26 December

Second Term (63 days instruction)

1987

January						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

New Year's Day, 1 January
Classes begin, 5 January

February						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

Mid-term Test Week, 9 to
13 February
Reading Week, 16 to 20 February

March						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

April						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

Classes end, 8 April
Good Friday, 17 April
Easter Monday, 20 April
Exams, 21 to 25 April

May						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Victoria Day, 18 May

June						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Spring Convocation,
1, 2, 3, 4, 5 June